

Table 5-5. Expected incremental effluent concentrations from chemical separations areas (F and H) to surface streams^a

Constituent	F-Area cooling water/process sewer outfall to Four Mile Creek ^b	H-Area cooling water/process sewer outfall to Four Mile Creek ^b	H-Area mfg. bldg. outfall to Four Mile Creek ^b	1982 Mean concentrations in Four Mile Creek at Road A-7	Drinking water standards or water quality criteria ^c
Incremental increase in effluent discharged (liters/min)					
pH	890 5.3-6.9	650 5.9-6.8	390 2.9-7.8	- 6.2-7.4	- 6.5-8.5 (S)
BOD	<2	<2	2	-	-
Total suspended solids (TSS)	10	32	6	3	-
Oil and grease	<10	<10	<10	-	-
Lead (Pb)	<0.001	0.004	0.006	<0.5	0.05 (P)
Mercury (Hg)	<0.0002	0.0011	0.0007	-	0.002 (P)
Nickel (Ni)	0.006	0.014	0.02	-	0.013 (WQS)
Silver (Ag)	<0.001	<0.0003	<0.0003	-	0.05 (P)
Zinc (Zn)	0.034	0.063	0.084	-	5 (S)
Chloride (Cl)	<0.1	Nb ^d	6.6	4.1	250 (S)
Fluoride (F)	<0.1	<0.1	<0.1	-	1.4-2.4 (S)
Nitrite/nitrate-N(NO ₂ /NO ₃)	0.35	<0.05	0.19	2.71	10 (P)
Phosphate-P(PO ₄)	0.05	0.02	0.01	<0.02	-
Cyanide (CN)	<0.02	<0.02	<0.02	-	0.02 (WQS)
Phenols	<0.002	<0.002	<0.002	-	3.5 (WQS)
Copper (Cu)	-e	-	-	-	1 (S)
Iron (Fe)	-	-	-	0.38	0.3 (S)
Manganese (Mn)	-	-	-	-	0.05 (S)
Aluminum (Al)	-	-	-	<0.85	-

^aAll concentrations are mg/liter unless otherwise noted.

^bDu Pont, 1982b.

^cDrinking water standards: (P), 40 CFR Part 141; (S): 40 CFR Part 143; water quality criteria (WQS): Federal Register, Part V, Vol. 45, No. 231, Nov. 28, 1980.

^dNot detectable.

^eData not available.

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